

LOG

FURNISHED BY: Douglas & Dickinson, Inc.

DATE: 10-20-71

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	orange sand	
10	20	light sand	
20	32	" "	
32	42	sand & small gravel	
42	52	grey clay	
52	63	" "	
63	73	" "	
73	83	" "	
83	94	" "	
94	104	" "	
104	114	" "	
114	126	" "	
126	136	" "	
136	146	" "	
146	158	" "	
158	168	" "	
168	178	" "	
178	190	" "	
190	200	" "	
200	210	" "	
210	220	" "	
220	232	grey clay & shell	
232	242	" " "	
242	252	" " "	
252	262	" " "	
262	273	" " "	
273	283	" " "	
283	293	" " "	
293	305	" " "	
305	315	" " "	
315	325	grey clay	
325	336	" "	
336	346	" "	
346	356	" "	
356	369	" "	
369	379	grey clay & shell	
379	391	" " "	
391	402	" " "	
402	412	" " "	
412	424	" " "	
424	434	" " "	
434	446	" " "	
446	456	grey clay	
456	466	" "	
466	476	grey clay & sand	
476	488	" " "	
488	500	" " "	
500	510	" " "	
510	524	" " "	
524	534	" " "	
534	546	" " "	

(continued)

(Use additional forms if necessary)

LOG (Continued)

Owner: Smith Seafood
Driller: Douglas & Dickinson, Inc.
County: Northumberland (Reedville)

W# 3395
C# 151

Depth (feet)		
<u>From</u>	<u>To</u>	<u>Type of rock or soil penetrated</u>
546	556	grey clay & shell
556	568	" " "
568	578	" " "
578	588	grey clay
588	598	" "
598	608	grey sand & shell
608	618	" " "
618	628	" " "
628	638	" " "
638	648	" " "
648	658	" " "
658	668	light sand
668	678	" "
678	688	" "
688	698	" "
698	708	light & grey sand
708	718	" " "

VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1
 Date rec'd: 12-20-71 Date Processed: 3-15-72
 PROPERTY: Smith Seafood
 COMPANY: Douglas & Dickinson
 COUNTY: Northumberland

C-151
 Well Repository No.: W- 3395
 Sample Interval: from 0 to: 718
 Number of samples: 68
 Total Depth: 718'
 Oil or Gas: Water:XX Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	315-325	638-648	-	-
10-20	325-336	648-658	-	-
20-32	336-346	658-668	-	-
32-42	346-356	668-678	-	-
42-52	356-369	678-688	-	-
52-63	369-379	688-698	-	-
63-73	379-391	698-708	-	-
73-83	391-402	708-718	-	-
83-94	402-412	-	-	-
94-104	412-424	-	-	-
104-114	424-434	-	-	-
114-126	434-446	-	-	-
126-136	446-456	-	-	-
136-146	456-466	-	-	-
146-158	466-476	-	-	-
158-168	476-488	-	-	-
168-178	488-500	-	-	-
178-190	500-510	-	-	-
190-200	510-524	-	-	-
200-210	524-534	-	-	-
210-220	534-546	-	-	-
220-232	546-556	-	-	-
232-242	556-568	-	-	-
242-252	568-578	-	-	-
252-262	578-588	-	-	-
262-273	588-598	-	-	-
273-283	598-608	-	-	-
283-293	608-618	-	-	-
293-305	618-628	-	-	-
305-315	628-638	-	-	-

All intervals have both washed and unwashed samples.

Owner: Smith Seafood
Driller: Douglas & Dickinson
County: Northumberland

W# 3395
C# 151
Total Depth: 718'
Quad: Reedville
Elev: 718'

Depth
(feet)

WELL LOG

- 0-10 Sand - dark yellowish brown (10YR 5/6); very sparse clay (on granules); medium to granule, subangular, poorly sorted; iron oxide staining on grains.
- 10-32 Sand - very pale orange (10YR 8/2); very sparse clay on granules; medium (10-20') and medium to very coarse (20-32'), subangular, well to moderate sorting; few grains glauconite; iron oxide fragments.
- 32-42 Sand - dark yellowish orange (10YR 6/6); very sparse clay in sand clasts; medium to granule, subangular, poorly sorted; few grains glauconite.
- 42-52 Clay - pale yellowish brown (10YR 6/2); clay in gray and pinkish brown clasts; moderate sand, medium to granule, subangular, poorly sorted; few grains of glauconite; brown (organic?) stains on clay; mica.
- 52-62 Clay - light olive gray (5Y 5/2); abundant sand, fine to medium, subangular, poorly sorted; 5% glauconite; very rare shell fragments.
- 63-146 Clay - light olive gray (5Y 6/1); clay in fine pellets; abundant sand, fine to medium, subangular, poorly sorted; few rounded pebbles at 104-114' and 126-136'; 8% glauconite; 1% at 126-146'; very rare shell fragments; mica.
- 146-190 Clay - light olive gray (5Y 6/1); abundant sand, fine at 146-168' and fine to coarse at 168-190', subangular, well sorted and moderately well sorted at 168-190'; few glauconite grains; diatoms; mica.
- 190-210 Clay - light olive gray (5Y 5/1); abundant sand; fine to coarse with some pebbles at 190-200', subangular, moderate sorting; very few grains of glauconite; mica.
- 210-293 Clay - light olive gray (5Y 6/1); very abundant sand; fine to coarse, subangular, moderate sorting; forams at 283-293'; mica.
- 293-369 Clay - light olive gray (5Y 6/1); clay in fine pellets; sparse sand, fine to coarse, subangular, poorly sorted, some granules at 356-369'; abundant diatoms; echinoderm spines; forams - Robulus (L), Bolivina, Textularia, Globigerina, Planularia (?), Siphogenerina, Nonion; ostracods at 315-325'.

Owner: Smith Seafood

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W# 3395

C# 151

Depth
(feet)

- 369-379 Clay - light olive gray (5Y 4/1); abundant sand, coarse to granule, subangular, poorly sorted; 8% shell fragments; 5% forams - Siphogenerina, Robulus, Nonion, Globigerina, Textularia.
- 379-402 Sand - light olive gray (5Y 6/1); sparse clay; medium to granule, subangular, poorly sorted; very few grains glauconite; 40% shell fragments; forams - Robulus.
- 402-412 Sand - light olive gray (5Y 5/1); moderate clay; fine to very coarse, subangular, poorly sorted; few glauconite/phosphate fragments; 10% shell fragments; forams - Quinqueloculina, Planularia.
- 412-434 Sand - light olive gray (5Y 6/1); sparse clay; fine to very coarse, subangular, poor sorting; 1% phosphate fragments; 8% shell fragments at 412-424 and 3% at 424-434; broken forams; clear blue-green "glassy" fragment.
- 434-446 Sand - light olive gray (5Y 6/1); very sparse clay; fine to very coarse, subangular, poorly sorted; 3% phosphate fragments; 3% shell fragments; echinoderm spines; garnet.
- 446-456 Clay - light olive gray (5Y 5/1); sparse sand; 50% forams; fine to very coarse, subangular, poorly sorted; 3% phosphate fragments; 3% fine shell fragments; forams - Cibicides, Nonion, Amphistegina, Quinqueloculina, Globigerina, Robulus (L), Bolivina, Discorbis, Siphogenerina, Guttulina, Bolivina; ostracods; mica.
- 456-466 Sand - light olive gray (5Y 5/1); abundant clay; 50% forams; fine to very coarse and some granules, subangular and angular, poorly sorted; 3% phosphate fragments; 3% shell fragments; echinoderm spines; forams - Nodosaria, Cibicides, Amphistegina, Robulus, Guttulina, etc.; ostracods; mica; pyrite nodules.
- 466-488 Gravel, Glauconitic - mixed colors; 50% glauconite; medium to granule and dark green, granules to pebbles, subrounded to rounded, moderate sorting; moderate clay with sparse sand in smaller grain sizes at 476-485; limestone/glauconite clasts; 3% forams - several genera.
- 488-500 Gravel, Glauconitic - light and dark green; 50% glauconite; medium to large granules, subangular to subrounded, poorly sorted; forams; iron oxide staining.
- 500-510 Sand, Glauconitic - light and dark green; 50% glauconite; medium to small granules, subangular to subrounded, poorly sorted; forams; iron oxide staining; rose quartz.

Depth
(feet)

- 510-534 Sand, Glauconitic - greenish black (5G 2/1); 95+% glauconite; very sparse clay in clasts; medium to small granules, subangular to subrounded, poorly sorted, few grains; 1-2% shell fragments; very sparse forams/ostracods.
- 534-556 Sand, Glauconite - light and dark gray; 85% glauconite; sparse to moderate clay; sparse sand; fine to granule, subangular to subrounded, poorly sorted; very rare shell fragments; forams - Nodosaria; ostracods; pyrite.
- 556-568 Sand, Glauconitic - light and dark green; 90% glauconite; sparse clay; sparse sand; fine to granule, subangular to subrounded, poorly sorted; very rare shell fragments; forams; ostracods; pyrite.
- 568-598 Clay, Glauconitic - light and dark gray; 50% glauconite; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; very rare shell fragments; forams - Robulus (L).
- 598-618 Sand, Glauconite, Clay - light and dark gray; 50+% glauconite; moderate clay; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; 40+% large (orange) shell fragments; forams; some limestone on shell fragments.
- 618-638 Sand, Glauconitic - greenish black (5G 2/1); 95+% glauconite and 80+% at 628-638; sparse to very sparse clay; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; very rare shell fragments; forams - Dentalina (2 species); pyrite; iron oxide.
- 638-658 Clay - pale yellow brown (10YR 6/2); abundant sand; fine to coarse, subangular, poorly sorted; 40% glauconite; very rare shell fragments; forams.
- 658-718 Sand - yellowish gray (5Y 7/2); 658-688 - very sparse clay in small clasts, 698-708 - sparse clay and 708-718 - moderate clay; medium to coarse and granules at 688-698, subangular with some angular at 658-668, poorly sorted; decreasing amounts of glauconite (15% to 5% at 688-698), but 40% at 708-718; feldspar; mica; garnet.

Logged by: J. K. Polzin
September 2, 1980